

Form PTO-1449	Docket Number: 0063.024	Application Number: 08/441,443
INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Applicant Houghton, et al.	
(Use several sheets if necessary)	Filing Date: May 15, 1995	Group Art Unit: 1815

U.S. PATENT DOCUMENTS							
Examiner Initials	Ref. No.	Date	Document No.	Name	Class	Subclass	Filing Date If Appropriate
MKB	I.A.143	04/21/92	5,106,726	Wang, Chang Y.	435	5	
MKB	I.A.144	07/25/95	5,436,126	Wang, Chang Y.	435	5	
MKB	I.B.13.	1990	4,891,313	Berger, et al.	435	7.94	
MKB	I.B.52.	1987	4,659,678	Forrest, et al.	436	512	
MKB	I.B.76.	1991	5,077,193	Mishiro, et al.	435	5	
MKB	I.B.78.	07/28/87	4,683,195	Mullis, et al.	435	6	
MKB	I.B.79.	07/28/87	4,683,202	Mullis, et al.	435	91.2	
MKB	I.B.102.	1987	4,673,634	Seto, et al.	424	225.1	
MKB	I.B.116.	1987	4,702,909	Villarejos, et al.	435	5	
MKB	I.B.162.	03/02/93	5,191,064	Arima, et al.	530	324	
MKB	I.B.163.	06/08/93	5,218,099	Reyes, et al.	536	23.72	

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Examiner Initials	Ref. No.	Date	Document No.	Country	Class	Subclass	Translation YES NO
MKB	I.A.4.	06/29/89	WO 89/05855-A	PCT	—	—	
MKB	I.A.18.	01/07/93	WO 93/00365	PCT	—	—	
MKB	I.A.19.	12/18/90	58123/90	Australia	—	—	
MKB	I.A.27.	11/30/88	88400790.7	Europe	—	—	
MKB	I.A.39.	06/26/91	GB 2,239,245 A	Great Britain	—	—	
MKB	I.A.40.	11/15/93	5-81600	Japan	—	—	X
MKB	I.A.41.	06/01/89	WO 89/04669	PCT	—	—	
MKB	I.A.42.	10/04/90	WO 90/11089	PCT	—	—	
MKB	I.A.43.	11/29/90	WO 90/14436	PCT	—	—	
MKB	I.A.54.	03/29/90	02-500880	Japan	—	—	X
MKB	I.A.55.	11/16/89	89/10967	Australia	—	—	
MKB	I.A.59.	11/29/89	36979/89	Australia	—	—	
MKB	I.A.131.	09/04/91	0293274	Europe	—	—	
MKB	I.A.132.	11/16/89	WO 89/10967	PCT	—	—	

EXAMINER: Mary Kzeman	DATE CONSIDERED: 7/2/97
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MKZ	I.A.142	08/21/91	EP 0442394 A2	Europe	/	/		
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MKZ	I.B.36.	1982	WO 82/00205	PCT	/	/		
MKZ	I.B.53.	1987	WO 87/05930	PCT	/	/		
MKZ	I.B.61.	06/26/91	2,239,245	Great Britain	/	/		
MKZ	I.B.64.	05/31/89	EP 0318216	Europe	/	/		
MKZ	I.B.65.	09/19/90	EP 0388232	Europe	/	/		
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MKZ	I.B.87.	08/10/88	EP 0277437	Europe	/	/		X
MKZ	I.B.88.	05/19/88	WO 88/03410	PCT	/	/		X
MKZ	I.B.91.	1991	WO 91/15516	PCT	/	/		
MKZ	I.B.98.	1988	EP 0279460	Europe	/	/		X
MKZ	I.B.100	1986	EP 0194207	Europe	/	/		
MKZ	I.B.104	04/13/88	EP 0263761	Europe	/	/		
MKZ	I.B.113.	1982	EP 0061974	Europe	/	/		
MKZ	I.B.114	1982	WO 82/03330	PCT	/	/		X
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MKB	I.A.8.	Billeter, et al., "Cloning of DNA Corresponding to Four Different Measles Virus Genomic Regions," <u>Virology</u> 132 :147-159 (1984)
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MKB	I.A.10.	Bodescot, et al., "Clustered Alternative Splice Sites In Epstein-Barr Virus Rnas," <u>Nucleic Acids Res.</u> 15 :5887 (1987)
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MKB	I.A.29.	Farrell, et al., "Latent and Lytic Cycle Promoters of Epstein-Barr Virus," <u>EMBO J.</u> 2 (8):1331-1338 (1983)
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<i>MKB</i>	I.A.53.	Krissansen, et al., "Primary Structure of the T3 K Subunit of the T3/T Cell Antigen Receptor Complex Deduced From Cdna Sequences: Evolution of the T3 K and A Subunits," <u>EMBO J.</u> 5(8):1799-1808 (1986)
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<i>MKB</i>	I.A.71.	Pasek, et al., "Hepatitis B Virus Genes & their Expression In <i>E. Coli</i> ," <u>Nature</u> 282 :575-579 (1979)
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MKB	I.A.96.	Yates, et al., "A Cis-Acting Element From the Epstein-Barr Viral Genome That Permits Stable Replication of Recombinant Plasmids In Latently Infected Cells," <u>Proc. Natl. Acad. Sci. USA</u> 81:3806-3810 (1984)
MKB	I.A.97.	Young, et al., "Efficient Isolation of Genes By Using Antibody Probes," <u>Proc. Natl. Sci. USA</u> 80:1194-1198 (1983)
MKB	I.A.98.	Suzuki, et al., "Characterization of A cDNA for Human Protein C Inhibitor," <u>J. Biol. Chem.</u> 262(2):611-616 (1987)
MKB	I.A.99.	First Opposition to Chiron Japanese Patent Application No. 01-500565, filed by Steven Woodsmall (and translation) with supporting documents.
MKB	I.A.100.	Reply to First Opposition to Chiron Japanese Patent Application No. 01-500565

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Form PTO-1449	Docket Number: 0063.024	Application Number: 08/441,443
INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Applicant Houghton, et al.	
(Use several sheets if necessary)	Filing Date: May 15, 1995	Group Art Unit: 1815

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MKG	I.A.101.	Second Opposition to Chiron Japanese Patent Application No. 01-500565, filed by Akira Yamamoto (and translation) with supporting documents.
	I.A.102.	Reply to Second Opposition to Chiron Japanese Patent Application No. 01-500565
	I.A.103.	Third Opposition to Chiron Japanese Patent Application No. 01-500565, filed by Asako Sudo (and translation) with supporting documents.
	I.A.104.	Reply to Third Opposition to Chiron Japanese Patent Application No. 01-500565
	I.A.105.	Fourth Opposition to Chiron Japanese Patent Application No. 01-500565, filed by Yashimi Tawara (and translation) with supporting documents.
	I.A.106.	Reply to Fourth Opposition to Chiron Japanese Patent Application No. 01-500565
	I.A.107.	Fifth Opposition to Chiron Japanese Patent Application No. 01-500565, filed by Tetsuo Nakamura (and translation)
	I.A.108.	Reply to Fifth Opposition to Chiron Japanese Patent Application No. 01-500565
	I.A.109.	Sixth Opposition to Chiron Japanese Patent Application No. 01-500565, filed by Toren K.K. (and translation) with supporting documents.
	I.A.110.	Reply to Sixth Opposition to Chiron Japanese Patent Application No. 01-500565
	I.A.111.	Seventh Opposition to Chiron Japanese Patent Application No. 01-500565, filed by Sumitomo Metal Industries, Ltd. (and translation) with supporting documents.
	I.A.112.	Reply to Seventh Opposition to Chiron Japanese Patent Application No. 01-500565
	I.A.113.	Eighth Opposition to Chiron Japanese Patent Application No. 01-500565, filed by Hiroshi Iino (and translation) with supporting documents.
	I.A.114.	Reply to Eighth Opposition to Chiron Japanese Patent Application No. 01-500565
	I.A.115.	Ninth Opposition to Chiron Japanese Patent Application No. 01-500565, filed by Kyokuto Seiyaki Kogyo, Inc. (and translation) with supporting documents
	I.A.116.	Reply to Ninth Opposition to Chiron Japanese Patent Application No. 01-500565
	I.A.117.	Tenth Opposition to Chiron Japanese Patent Application No. 01-500565, filed by United Biomedical, Inc. (and translation) with supporting documents
	I.A.118.	Reply to Tenth Opposition to Chiron Japanese Patent Application No. 01-500565
	I.A.119.	Eleventh Opposition to Chiron Japanese Patent Application No. 01-500565, filed by Kokusai Shiyaku (and translation) with supporting documents
	I.A.120.	Reply to Eleventh Opposition to Chiron Japanese Patent Application No. 01-500565
✓	I.A.121.	Twelfth Opposition to Chiron Japanese Patent Application No. 01-500565, filed by Shigeo Kimura (and translation) with supporting documents.
MKG	I.A.122.	Reply to Twelfth Opposition to Chiron Japanese Patent Application No. 01-500565

EXAMINER: <u>May 1997</u>	DATE CONSIDERED: <u>7/3/97</u>
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INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Applicant Houghton, et al.	
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Examiner Initials	Ref. No.	Title
MKB	I.A.123.	Thirteenth Opposition to Chiron Japanese Patent Application No. 01-500565, filed by Akzo Neamloze Vennootschap (and translation)
	I.A.124.	Reply to Thirteenth Opposition to Chiron Japanese Patent Application No. 01-500565
	I.A.125.	Fourteenth Opposition to Chiron Japanese Patent Application No. 01-500565, filed by F. Hoffman la Roche AG (and translation) with supporting documents
	I.A.126.	Reply to Fourteenth Opposition to Chiron Japanese Patent Application No. 01-500565
	I.A.127.	Translation of Decision on Opposition Against Patent Application No. 01-500565, issued 12/22/95.
	I.A.128.	Statement of Grounds for Opposition to Australian Patent No. 640,920, filed by Hoffman La Roche with supporting documents
	I.A.129.	Australian Litigation Bundle, for Chiron Australian Patent No. 624,105
	I.A.130.	Murex Reply in the Litigation of Chiron Australian Patent No. 624,105
	I.A.133.	First Opposition to Chiron European Application No. 0 318 216, filed by Akzo Pharma BV (01/27/94) with supporting documents
	I.A.134.	Second Opposition to Chiron European Application No. 0 318 216, filed by Murex Diagnostics Limited(09/12/94) with supporting documents
	I.A.135.	Third Opposition to Chiron European Application No. 0 318 216, filed by United Biomedical (09/15/94) with supporting documents
	I.A.136.	Fourth Opposition to Chiron European Application No. 0 318 216, filed by Beringwerke (09/15/94)
	I.A.137.	Fifth Opposition to Chiron European Application No. 0 318 216, filed by The Research Foundation for Microbial Diseases (09/14/94) with supporting documents
	I.A.138.	Sixth Opposition to Chiron European Application No. 0 318 216, filed by F. Hoffman-La Roche AG(09/15/94)
	I.A.139.	J.A. Kemp & Co.(Chiron): Response By Patentee To Notices of Opposition re EP 318 216, June 1995
	I.A.140.	Miscellaneous Documentation (believed to have been supplied to Prof. Donald Chisum by Dr. Bradley or the Center for Disease Control)
MKB	I.A.141.	Daniel W. Bradley v. Chiron Corporation, Civil Action No. 94-4342 Litigation Bundle, with supporting documents.
MKB	I.A.146.	[U.K. LITIGATION Bundle 1]
MKB	I.A.147.	[U.K. LITIGATION Bundle 2]
MKB	I.A.148.	[U.K. LITIGATION Bundle 5]
MKB	I.A.149.	[U.K. LITIGATION Bundle 6]

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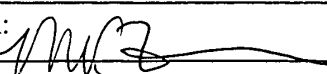
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INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Applicant Houghton, et al.	
(Use several sheets if necessary)	Filing Date: May 15, 1995	Group Art Unit: 1815

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<i>mkB</i>	I.A.150.	[U.K. LITIGATION Bundle 7]
<i>mkB</i>	I.A.151.	[U.K. LITIGATION Bundle 7a]
<i>mkB</i>	I.A.152.	[U.K. LITIGATION Bundle 7b]
<i>mkB</i>	I.A.153.	[U.K. LITIGATION Bundle 7c]
<i>mkB</i>	I.A.154.	[U.K. LITIGATION Bundle 8]
<i>mkB</i>	I.A.155.	[U.K. LITIGATION Bundle 9]
<i>mkB</i>	I.A.156.	[U.K. LITIGATION Bundle 9.a.1]
<i>mkB</i>	I.A.157.	[U.K. LITIGATION Bundle 9.a.2]
<i>mkB</i>	I.A.158.	[U.K. Interlocutory Affidavits and Exhibits, Vol. 1]
<i>mkB</i>	I.A.159.	[U.K. Interlocutory Affidavits and Exhibits, Vol. 2]
<i>mkB</i>	I.A.160.	[U.K. Interlocutory Affidavits and Exhibits, Vol. 3]
<i>mkB</i>	I.A.161.	[U.K. Interlocutory Affidavits and Exhibits, Vol. 4]
<i>mkB</i>	I.A.162.	[U.K. Transcript Speeches and Evidence, Vol. 4]
<i>mkB</i>	I.B.1.	Bioindustry 3:302 (1986); (previously considered in US 08/103,961, reference I.A.1)
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<i>mkB</i>	I.B.8.	Arikan, et al., "Sequences of the E. coli evrB Gene and Protein," Nucleic Acids Res. 14(6):2637 (1986); (previously considered in US 08/103,961, reference I.A.5)
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Form PTO-1449	Docket Number: 0063.024	Application Number: 08/441,443
INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Applicant Houghton, et al.	
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MKB	I.B.10.	Arima, et al., "Cloning of a cDNA Associated with Acute and Chronic Hepatitis C Infection Generated from Patients Serum RNA," <u>Gastroenterol. Jpn.</u> 24(5) :540-544 (1989); (previously considered in US 07/456,637, reference IK; and US 08/103,961, reference I.B.33).
MKB	I.B.11.	Backendorf, et al., "Structure of the uvrB Gene of Escherichia coli. Homology with Other DNA Repair Enzymes and Characterization of the uvrB5 mutation," <u>Nucleic Acids Res.</u> 14(7) :2877-2890 (1986); (previously considered in US 08/103,961, reference I.A.9)
MKB	I.B.12.	Bankier, et al., "DNA Sequence Analysis of the <i>EcoRI</i> Dhet Fragment of B95-8 Epstein-Barr Virus Containing the Terminal Repeat Sequences," <u>Mol. Biol. Med.</u> 1 :425-445 (1983); (previously considered in US 08/103,961, reference I.A.11)
MKB	I.B.14.	Mierendorf, et al., "Gene Isolation by Screening Σ gt11 Libraries with Antibodies," <u>Methods of Enzymology</u> , Chpt. 51, Vol. 152 (1987) Berger & Kimmel (eds): (previously considered in US 08/103,961, reference I.A.12)
MKB	I.B.15.	Bradley, "The Agents of Non-A, Non-B Viral Hepatitis," <u>J. Virol. Meth.</u> 10 :307-319 (1985); (previously considered in US 07/456,637, reference EK; and US 08/103,961, reference I.B.45)
MKB	I.B.16.	Bradley, et al., "Posttransfusional Non-A, Non-B Hepatitis in chimpanzees. Physiochemical Evidence that the Tubule-forming Agent is a Small Enveloped Virus," <u>Gastroenterology</u> 88 :773-779 (1985); (previously considered in US 07/456,637, reference DS; and US 08/103,961, reference I.B.51)
MKB	I.B.17.	Bradley, et al., "Posttransfusion Non-A, Non-B Hepatitis: Physiochemical Properties of Two Distinct Agents," <u>J. Infect. Dis.</u> 148(2) :254-265 (1983); (previously considered in US 07/456,637, reference CP; and US 08/103,961, reference I.B.55)
MKB	I.B.18.	Bradley, et al., "Experimental Infection of Chimpanzees with Antihemophilic (Factor VIII) Materials: Recovery of Virus-Like Particles Associated with Non-A, Non-B Hepatitis," <u>J. Med. Virol.</u> 3 :253-269 (1979); (previously considered in US 07/456,637, reference BP; and US 08/103,961, reference I.B.56)
MKB	I.B.19.	Bradley, et al., "Enterically Transmitted Non-A, Non-B Hepatitis: Serial Passage of Disease in Cynomolgus Macaques and Tamarins and Recovery of Disease-Associated 27 to 34nm Virus like Particles," <u>Proc. Natl. Acad. Sci. USA</u> 84 :6277-6281 (1987); (previously considered in US 07/456,637, reference FO, BBR; and US 08/103,961, reference I.B.59)
MKB	I.B.20.	Bradley, et al., "Hepatitis Non-A, Non-B Viruses Become Identified as Hepatitis C and E Viruses," <u>Prog. Med. Virol.</u> 37 :101-135 (1990); (cited by the examiner in 07/456,637, paper 23; and US 08/103,961, reference I.B.61)
MKB	I.B.21	Bradley, et al., "Etiology and Natural History of Post-Transfusion and Enterically-Transmitted Non-A, Non-B Hepatitis," <u>Seminars in Liver Disease</u> 6(1) :56-66 (1986); (previously considered in US 07/456,637, reference BL; and US 08/103,961, reference

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		I.B.62)
MKB	I.B.22.	Bryan, "Viral Hepatitis. 1. Clinical and Laboratory Aspects and Epidemiology," <u>Interstate Postgrad. Med. USA</u> 68(5) :66-86; (previously considered in US 08/103,961, reference I.A.21)
MKB	I.B.23.	Burk, et al., "Detection of Non-A, Non-B Hepatitis Antigen by Immunocytochemical Staining," <u>Proc. Natl. Acad. Sci. USA</u> 81 :3195-3199 (1984); (previously considered in US 07/456,637, reference GT; and US 08/103,961, reference I.B.69)
MKB	I.B.24.	Burkhardt, et al., "Hepatitis Non-A, Non-B Associated Substance in Feces Identification and Cloning of a Partially Double-Stranded Circular DNA," <u>Immun. Infect.</u> 16(3) :91-96 (1988); (previously considered in US 07/456,637, reference OP; and US 08/103,961, reference I.B.70)
MKB	I.B.25.	Burkhardt, et al., "Hepatitis Non-A, Non-B-associated DNA-Demonstration of the DNA in a proven infectious anti-D-immunoglobulin," <u>Immun. Infect.</u> 16(3) :97-99 (1988); (previously considered in US 07/456,637, reference OP; and US 08/103,961, reference I.B.71)
MKB	I.B.26.	Butt (Ed.), <u>Practical Immunoassay: The State of the Art</u> , Chpt. 3, Vol. 14 (1984); (previously considered in US 08/103,961, reference I.A.24)
MKB	I.B.27.	Buttner, et al., "The Agarose Gene (dagA) of <i>Streptomyces coelicor</i> A3(2): Nucleotide Sequence and Transcriptional Analysis," <u>Mol. Gen. Genet.</u> 209 :101-109 (1987); (previously considered in US 08/103,961, reference I.A.25)
MKB	I.B.28.	Carman, et al., "Vaccine-Induced Escape Mutant of Hepatitis B Virus," <u>The Lancet</u> 336 :325-329 (1990); (previously considered in US 08/103,961, reference I.A.91)
MKB	I.B.29.	Cashdollar, et al., "Cloning the double-stranded RNA genes of reovirus: Sequence of the cloned S2 gene," <u>Proc. Natl. Acad. Sci. USA</u> 79 :7644-7648 (1982); (previously considered in US 08/103,961, reference V.10)
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MKB	I.B.33.	Choo, et al., "Isolation of cDNA Clone Derived from a Blood-Borne Non-A, Non-B Viral Hepatitis Genome," <u>Science</u> , 244 :359-362 (1989); (previously considered in US/456,637,

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MKZ	I.B.34.	Coia, et al., "Nucleotide and Complete Amino Acid Sequences of Kunjin Virus: Definitive Gene Order and Characteristics of the Virus-specified Proteins," <u>J. Gen. Virol.</u> 69 :1-21 (1988); (previously considered in US 08/103,961, reference V.24)
MKZ	I.B.35.	Coursaget, et al., "Virus-Like Particles Associated with Non-A, Non-B Hepatitis," <u>The Lancet</u> , 14 July 1979, p. 92; (previously considered in US 07/456,637, reference BO; and US 08/103,961, reference I.B.88)
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MKZ	I.B.38.	Dalgarno, et al., "Partial nucleotide sequence of the Murray Valley encephalitis virus genome. Comparison of the encoded polypeptides with Yellow Fever virus structural and non-structural proteins," <u>J. Mol. Biol.</u> 187 :309-323 (1986); (previously considered in US 08/103,961, reference V.13)
MKZ	I.B.39.	Davis, et al., "Isolation of cDNA Clones for Differentially Expressed Genes of the Human Parasite <i>Schistosoma mansoni</i> ," <u>Proc. Natl. Acad. Sci. USA</u> 83 :5534-5538 (1986); (previously considered in US 08/103,961, reference I.A.30)
MKZ	I.B.40.	Denniston, et al., "Cloned Fragment of the Hepatitis Delta Virus RNA Genome: Sequence and Diagnostic Application," <u>Science</u> 232 :873-875 (1986); (previously considered in US 08/103,961, reference V.14)
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MKZ	I.B.44.	Donelson, et al., "Construction of <i>Onchocerca volvulus</i> cDNA libraries and partial characterization of the cDNA for a major antigen," <u>Mol. Biochem. Parasitol.</u> 31 :241-250 (1988); (previously considered in US 08/103,961, reference V.5)
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MKZ	I.B.49.	Faragher, et al., "Analysis of Ross River Virus Genomic RNA Using <i>Hae</i> III Digests of Single-Stranded cDNA to Infected-Cell RNA and Virion RNA," <i>Virology</i> 141 :248-256 (1985); (previously considered in US 08/103,961, reference I.A.34)
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INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Applicant Houghton, et al.	
(Use several sheets if necessary)	Filing Date: May 15, 1995	Group Art Unit: 1815

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INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Applicant Houghton, et al.	
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Form PTO-1449	Docket Number: 0063.024	Application Number: 08/441,443
INFORMATION DISCLOSURE CITATION IN AN APPLICATION	Applicant Houghton, et al.	
(Use several sheets if necessary)	Filing Date: May 15, 1995	Group Art Unit: 1815

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<i>MLZ</i>	I.B.173.	Bradley, et al., "Transmission of Non-A, Non-B Hepatitis to Chimpanzees: Recovery of Virus-Like Particles," <u>Abstr. Ann. Mtg. Am. Soc. Microbiol.</u> , 79 :267 (1979); (Considered in US 07/456,637, reference QQ; and US 08/103,961, reference I.B.46)
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